



PATENT  
Attorney Docket No. 110.01270101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): James B. McCarthy et al.	)	Group Art Unit:	1642
	)		
Serial No.: 09/937,076	)	Examiner:	unknown
Confirmation No.: 4527	)		
	)		
Filed: September 19, 2001	)		
International Filing Date: March 22, 2000	)		

For: METHODS OF USE OF  $\beta$ 1-INTEGRIN INHIBITORS

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application.

Consideration of each of the documents listed on the attached 1449 forms is respectfully requested. Pursuant to the provisions of M.P.E.P. §609, Applicants further request that a copy of the 1449 forms, marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

The Examiner's attention is directed to the following additional information. Claims 13-24, which are directed toward methods for treating burn-type injuries, claim priority to U.S. Provisional Application Serial No. 60/125,634 filed March 22, 1999 in the names of William J. Mileski and Gordon A. Jamieson. William J. Mileski was under an obligation to assign his rights to The University of Texas System. Certain of the other claims claim priority to U.S. Provisional Application Serial No. 60/167,528 filed November 24, 1999 in the name of Gordon A. Jamieson.

**Information Disclosure Statement**

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Applicants also wish to bring the Examiner's attention to the following pending U.S. Application, as well as any prior art and any provisional U.S. patent applications referenced therein. A copy of the below-listed pending U.S. Patent Application is provided herewith.

List of Pending Non-Published U.S. Patent Applications

Applicants	Application Number	Filing Date	Serial No. of Provisional Application to which listed Application claims priority
James B. McCarthy et al.	09/600,432	10/02/00	60/125,634 60/167,538

It is believed that no fee is due, as this Information Disclosure Statement is filed prior to the receipt of any Action on the merits. However, in the event a fee is due, please charge any fee or credit any overpayment to Account No. 13-4895. The Examiner is invited to contact Applicants' Representatives at the below-listed telephone number, if they can be of any assistance during prosecution of the present application.

**CERTIFICATE UNDER 37 C.F.R. 1.8:**

The undersigned hereby certifies that this paper is being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on this 11 day of March, 2002.

  
Ann M. Mueting

Respectfully submitted for  
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PATENT TRADEMARK OFFICE

March 11, 2002  
Date

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**DOCUMENTS ACCOMPANYING  
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**PART 1 OF 4**



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**PART 3 OF 4**



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**PART 4 OF 4**

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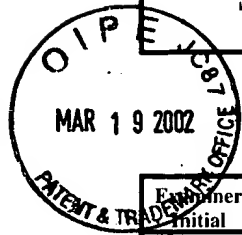
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**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	4,839,464	06/13/89	McCarthy et al.			
	4,938,949	07/03/90	Borch et al.			
	5,019,646	05/28/91	Furcht et al.			
	5,116,368	05/26/92	McCarthy et al.			
	5,147,797	09/15/92	McCarthy et al.			
	5,171,271	12/15/92	Furcht et al.			
	5,278,063	01/11/94	Hubbell et al.			
	5,294,551	03/15/94	Furcht et al.			
	5,330,911	07/19/94	Hubbell et al.			
	5,380,668	01/10/95	Herron			
	5,382,569	01/17/95	Cody et al.			
	5,545,620	08/13/96	Wahl et al.			
	5,591,719	01/07/97	Furcht et al.			
	5,595,887	01/21/97	Coolidge et al.			
	5,710,123	01/20/98	Heavner et al.			
	5,731,409	03/24/98	Fields et al.			
	5,744,515	04/28/98	Clapper			
	5,840,691	11/24/98	Furcht et al.			
	5,846,536	12/08/98	Bissell et al.			
	5,853,744	12/29/98	Mooradian et al.			
	6,013,628	01/11/00	Skubitz et al.			

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**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	EP 347 890 A1	12/27/89	Europe				
	EP 347 890 B1	12/27/89	Europe				
	EP 576 898 A2	01/05/94	Europe				
	EP 576 898 A3	01/05/94	Europe				
	JP 6016568 A	01/25/94	Japan (with English language abstract)				X
	WO 89/01942 A1	03/09/89	PCT				
	WO 93/17047 A1	09/02/93	PCT				
	WO 94/17097 A1	08/04/94	PCT				
	WO 97/23451 A1	07/03/97	PCT (with English language abstract)				X
	WO 98/00395 A1	01/08/98	PCT (with English language abstract)				X
	WO 99/37669 A1	07/29/99	PCT				
	WO 00/56350 A2	09/28/00	PCT				
	WO 00/56350 A3	09/28/00	PCT				

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

Examiner Initial	Document Description
	Adelsman et al., "Stimulation of $\beta$ 1-Integrin Function by Epidermal Growth Factor and Heregulin- $\beta$ Has Distinct Requirements for erbB2 but a Similar Dependence on Phosphoinositide 3-OH Kinase," <u>Molecular Biology of the Cell</u> , 10(9):2861-2878 (September, 1999).
	Akiyama et al., "Fibronectin," <u>Advances in Enzymology and Related Areas of Molecular Biotechnology</u> , Vol. 59, Meister, ed., John Wiley and Sons, New York, NY; title page, publication page, and pages 1-57 (1987).

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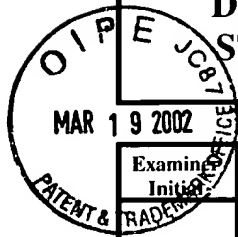
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Examiner Initials	Document Description
	American Type Culture Collection, "ATCC Number 25923," organism: <i>Staphylococcus aureus</i> ; designation: Seattle 1945 [online]; Manassas, VA [retrieved on 2002-02-06] from the Internet. Retrieved from the Internet: <URL: <a href="http://phage.atcc.org/cgi-bin/searchengine/longview.cgi?view=ba,4359370,25923&amp;text=25923">http://phage.atcc.org/cgi-bin/searchengine/longview.cgi?view=ba,4359370,25923&amp;text=25923</a> >, 3 pages.
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	Bruck et al., "The Use of Synthetic Analogues of Arg-Gly-Asp (RGD) and Soluble Receptor of Tumor Necrosis Factor to Prevent Acute and Chronic Experimental Liver Injury," <u>Yale Journal of Biology and Medicine</u> , 70(4):391-402 (1997).
	Carrico et al., "Chapter 12: Transfusion, Autotransfusion, and Blood Substitutes," <u>Trauma</u> , 4 <sup>th</sup> Ed., Mattox et al., eds., McGraw-Hill Companies, New York, NY; publication page and pages 233-243 (2000).
	Chappell et al., "Inhibition of Leukocyte-Mediated Tissue Destruction by Synthetic Fibronectin Peptide (Trp-9-Tyr)," <u>Journal of Burn Care and Rehabilitation</u> , 20(6):505-510 (November, 1999); presented at 31 <sup>st</sup> Annual Meeting, American Burn Association, March 24-27, Lake Buena Vista, FL, (March 25, 1999).
	Cue et al., "A nonpeptide integrin antagonist can inhibit epithelial cell ingestion of <i>Streptococcus pyogenes</i> by blocking formation of integrin alpha 5beta 1-fibronectin-M1 protein complexes," <u>Proceedings of the National Academy of Sciences, USA</u> , 97(6):2858-63 (2000).
	Duan et al., "Enhancement of nigral graft survival in rat brain with the systemic administration of synthetic fibronectin peptide V," <u>Neuroscience</u> , 100(3):521-30 (2000).
	Fields et al., "Chapter 3: Principles and Practice of Solid-Phase Peptide Synthesis," <u>Synthetic Peptides: A User's Guide</u> , Grant, ed., W. H. Freeman & Co., New York, NY; title page, publication page, table of contents, and pages 77-183 (1992).

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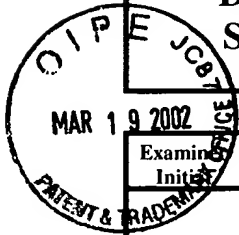
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Examiner Initials	Document Description
	Furcht et al., "Editorial: Tumor Cell Invasion, Matrix Metalloproteinases, and the Dogma," <u>Laboratory Investigation</u> , 70(6):781-783 (1994).
	Guan et al., "Lymphoid Cells Recognize an Alternatively Spliced Segment of Fibronectin via the Integrin Receptor $\alpha_4\beta_1$ ," <u>Cell</u> , 60(1):53-61 (1990).
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	Hogg et al., "The Sticking Point: How Integrins Bind to Their Ligands," <u>Trends in Cell Biology</u> , 4:379-382 (1994).
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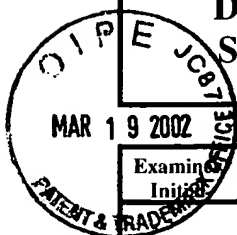
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	Irie et al., "Critical Amino Acid Residues for Ligand Binding Are Clustered in a Predicted $\beta$ -turn of the Third N-terminal Repeat in the Integrin $\alpha_4$ and $\alpha_5$ Subunits," <u>The EMBO Journal</u> , <u>14</u> (22):5550-5556 (1995).
	Irie et al., "Multiple Loop Structures Critical for Ligand Binding of the Integrin A4 Subunit in the Upper Face of the $\beta$ -propeller Mode 1," <u>Proceedings of the National Academy of Sciences USA</u> , <u>94</u> (14):7198-7203 (1997).
	Isberg et al., "Multiple $\beta_1$ Chain Integrins Are Receptors for Invasin, a Protein That Promotes Bacterial Penetration into Mammalian Cells," <u>Cell</u> , <u>60</u> (5):861-871 (1990).
	Jackson et al., "Potent $\alpha_4\beta_1$ Peptide Antagonists as Potential Anti-Inflammatory Agents," <u>Journal of Medicinal Chemistry</u> , <u>40</u> (21):3359-3368 (1997).
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	Leong et al., "Identification of the Integrin Binding Domain of the <i>Yersinia Pseudotuberculosis</i> Invasin Protein," <u>The EMBO Journal</u> , <u>9</u> (6):1979-1989 (1990).

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Levrey et al., "Induction of Fibroblast Apoptosis by Soluble Fibronectin Peptides," Abstract 1050, 37<sup>th</sup> Annual Meeting of the American Society for Cell Biology, December 13-17, 1997, Washington, D.C., Molecular Biology of the Cell, 8:181A (November, 1997).

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Madden et al., "A Peptide Derived from Neutrophil Inhibitory Factor (NIF) Blocks Neutrophil Adherence to Endothelial Cells," Inflammation Research, 46(6):216-223 (1997).

Matsuo et al., "Role of Neutrophils in Radical Production During Ischemia and Reperfusion of the Rat Brain: Effect of Neutrophil Depletion on Extracellular Ascorbyl Radical Formation," Journal of Cerebral Blood Flow and Metabolism, 15(6):941-947 (1995).

McCarthy et al., "Laminin and Fibronectin Promote the Haptotactic Migration of B16 Mouse Melanoma Cells In Vitro," The Journal of Cell Biology, 98(4):1474-1480 (1984).

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McCarthy et al., "Metastasis Inhibition of Different Tumor Types by Purified Laminin Fragments and a Heparin-Binding Fragment of Fibronectin," Journal of the National Cancer Institute, 80(2):108-116 (1988).

McCarthy et al., "Localization and Chemical Synthesis of Fibronectin Peptides with Melanoma Adhesion and Heparin Binding Activities," Biochemistry, 27(4):1380-1388 (1988).

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	McCarthy et al., "Tumor Cell Adhesive Mechanisms and Their Relationship to Metastasis," <u>Seminars in Cancer Biology</u> , 2(3):155-167 (1991).
	McCartney-Francis et al., "Autoimmune Sjögren's-Like Lesions in Salivary Glands of TGF- $\beta$ 1-Deficient Mice Are Inhibited by Adhesion-Blocking Peptides," <u>The Journal of Immunology</u> , 157(3):1306-1312 (1996).
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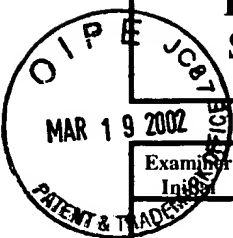
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	Nwariaku et al., "Inhibition of Selectin- and Integrin-Mediated Inflammatory Response after Burn Injury" <u>Journal of Surgical Research</u> , <u>63</u> (1):355-358 (1996).
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